

Svetlana 6BM8

High Performance Audio
Dual Package, Triode and Pentode

The Svetlana™ 6BM8 is a single glass envelope containing both a power pentode and triode. It has a pentode plate dissipation rating of 7 Watts with convection cooling. A single 6BM8 may be used as an economical low power mono block amplifier or a pair of 6BM8's, in ultra linear configuration are an excellent choice for more power. The 6BM8 is also a great choice as a driver for higher power tubes, such as the Svetlana SV811 and SV572 series triodes. It has an indirectly-heated oxide cathode, which may be DC operated for the absolute best hum/noise performance.

Close manufacturing specification tolerances and improved processing provide enhanced reliability and superior sonic performance. The high sensitivity of Svetlana 6BM8's is an economical method to achieve high quality sound with a minimum of components.

The Svetlana 6BM8 is manufactured in the Svetlana factory in Russia, and is designed to be a direct replacement for any 6BM8 or ECL82.

General Characteristics

Electrical

Heater:	Min.	Nom.	Max.	
Voltage (AC or DC)	5.7	6.3	6.9	V
Current		0.78		A
Cathode:		Oxide-coated, unipotential		
Cathode-to-heater potential, max.			100	V
Direct interelectrode capacitances, max.*		Triode	Pentode	
Grid no. 1 to cathode		2.7	9.3	pF
Plate to cathode		4	8	pF
Grid no.1 to plate		4	0.3	pF

Mechanical

Operating Position	Any
Base	9-pin miniature
Socket	Svetlana SK-9A or similiar
Basing diagram	JEDEC 9EX
Maximum dimensions:	
Height	78 mm (3.07 in.)
Seated height	71 mm (2.80 in.)
Diameter	22.2 mm (0.87 in.)
Cooling	Convection
Approximate net weight	20 g (0.7 oz.)

**Without external shielding, nominal values*

Maximum Ratings

Maximum Ratings	Triode	Pentode	
DC plate voltage	300	600**	V
Cathode current	15	50	mA
Grid no.2 voltage	—	300	V
Plate resistance	—	20,000 Ohms	
Plate dissipation	1	7	W

***Maximum peak positive pulse voltage 2500V*

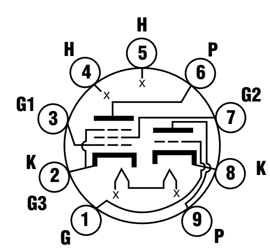
AF Power Amplifier

Average ratings	Triode	Pentode	
DC plate voltage	300	300	V
Grid no.2 DC (screen) voltage	–	200	V
Grid no.1 (control) voltage	-1.3	-24	V
DC plate current	1.1	40	mA
Grid no.2 DC (screen) current	—	8	mA
Amplification Factor	70	9.5	µ
Transconductance	2500	6400	µS
Plate load	150,000 Ohms	7000 Ohms	
Output power		1.8	W

Outline Drawing
6BM8 Triode and Pentode



Bottom View
9-pin Miniature Base Connections



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